

VIKRAM MARKALI

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EDUCATION

New York University (NYU)

New York, USA

Master of Science in Computer Science (GPA: 3.83)

Aug 2025 - May 2027

Coursework: Artificial Intelligence, Data Structures & Algorithms, Big Data, Machine Learning, Database Systems, Software Engineering.

University of Pune (SPPU)

Pune, India

Bachelor of Engineering in Information Technology (GPA: 3.82)

Aug 2021 - Jun 2024

Coursework: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, DBMS, Computer Networks.

EXPERIENCE

Software Engineer Intern

New York, USA

NYU's Endless Frontier Labs (EFL)

Apr 2026 - Present

- Owned agentic AI VC sourcing platform features end-to-end from design through production deployment.
- Built full-stack **RAG pipelines** with **LangChain** and **FAISS**, cutting BD research time **60%**.
- Shipped **FastAPI** microservices and **React** dashboards, automating cohort workflows for **30+** portfolio founders.

Freelance Software Engineer

New York, USA (Remote)

Visnity AI (Startup) | Capstone Project

Aug 2025 - Dec 2025

- Built full-stack AI-powered gig-matching platform end-to-end using **React**, **Next.js**, and scalable **FastAPI** architecture.
- Designed **RESTful microservices** with FastAPI, Firebase, and **SQL**, powering listings, profiles, and payments.
- Prototyped and iterated **LangChain** matching pipeline via user feedback, boosting match accuracy **38%**.

Software Engineer

Pune, India

Worldline Global Services Pvt Ltd

Oct 2024 - Jul 2025

- Architected **15+ RESTful APIs** with Spring Boot and **SQL**, cutting merchant onboarding time **40%**.
- Implemented monitoring, alerting, and automated rollback mechanisms, achieving **99.9% uptime** with zero incidents.
- Engineered **Spring Boot microservices**, reducing transaction latency **35%** while scaling to **10,000+ TPS**.
- Drove **Agile** sprint planning with QA and product teams, shipping biweekly releases on schedule.

Software Engineer Intern

Pune, India

Worldline Global Services Pvt Ltd

Jun 2024 - Sep 2024

- Implemented payment workflows from POC to production; SQL optimization cut API response times **30%**.
- Developed **Java**, **Spring Boot**, and Angular backend features, improving page load **25%** and stability.

Software Engineer Intern

Pune, India

Maverick Labs Pvt Ltd

May 2023 - May 2024

- Developed full-stack **GPS tracking services** in Java and REST APIs, improving location accuracy **40%**.
- Optimized **PostgreSQL** queries and **Redis** caching, cutting data retrieval time **50%** for **4,500+ users**.
- Refactored codebase using **OOP** design principles, cutting server response time **35%** and improving stability.

TECHNICAL SKILLS

Languages

Java, Python, JavaScript, TypeScript, C/C++, SQL, HTML/CSS

Frameworks & Libraries

Spring Boot, React, Next.js, Node.js, FastAPI, LangChain, RAG, LLM Orchestration, REST API

Databases & Cloud

MySQL, PostgreSQL, Redis, Vector DBs (FAISS), Firebase, AWS, Docker, Linux

Developer Tools

Git, GitHub, Jenkins, Agile/Scrum, CI/CD, Workflow Automation, Web Scraping, System Design

ACADEMIC PROJECTS

EFLense-v1 - Deep Tech Dealflow Intelligence [Github](#)

May 2026 - Present

Python, LangChain, LangGraph, Supabase, pgvector, Next.js, Google Cloud (GCP)

- Architected **autonomous multi-agent pipeline** using **LangGraph**, scanning **20+ sources** for startup deal sourcing.
- Engineered full-stack **RAG classification** system with **Next.js** frontend, scoring 25-30 leads against theses daily.
- Built self-improving feedback loop with retrained classifier, automated via **GitHub Actions** on zero-cost infra.

ZeroDrive [Github](#)

Mar 2026 - Jun 2026

React, FastAPI, AWS, JWT Auth, Docker, Git/GitHub, Redis

- Architected full-stack **cloud storage platform** powered by Telegram, engineering **chunked uploads** across multiple microservices.
- Built multi-user **React** frontend with encrypted file storage, integrating **agentic AI** for smart organization.

OrbiNasaSense - Spacecraft Orbital Watch System [Github](#)

Sept 2025 - Jan 2026

Python, TensorFlow, PyTorch, LSTM, Transformers, FastAPI, Firebase

- Built **real-time anomaly detection** pipeline for NASA spacecraft telemetry using **TensorFlow** and **PyTorch** models.
- Engineered automated data pipeline with multi-scale normalization, benchmarking **LSTM**, **Transformer**, and Isolation Forest models.